

## **ABSTRACT OF THE DISCLOSURE**

It is an object of the present invention to provide an audio signal encoding method, an audio signal decoding method, a transmitter, a receiver, and a wireless microphone system which can compress an audio signal at a relatively high compression ratio at a 5 relatively high quality with a relatively low delay. The compression encoder 4 of the transmitter includes an audio signal dividing filter bank 4a for dividing the audio signal into four sub-band signals, sampling each of the sub-band signals at a down-sampling rate depending on the number of the sub-band signals, and producing the sub-band signals sampled at the down-sampling rate, LD-CELP encoders 20a to 20d for encoding the sub-10 band signals on the basis of LD-CELP algorithm, and a multiplexer 4c for producing a multiplexed data stream with the encoded sub-band signals.